

MIS2402 Exam 2 Study Guide

Overview

Since our last exam, we have focused primarily on using `$.getJSON` and `$.post` to interact with API endpoints. Also, students were exposed to the MIS2402template which is an illustration of a single page architecture (SPA) application.

We have also continued to reinforce our understanding of jQuery and JavaScript.

In preparation for the exam, students are advised to review past lectures, challenges, and in-class exercises/demonstrations as references.

Another way to study, and ***perhaps the best way to study***, is to attempt the MIS2402 pro points project.

Information about the Exam

The exam will be a hands-on programming challenge broken down into steps. You will have the entire class in which to complete the exam. The exam is open book, open notes. There are also online resources you may use. Here they are:

- <http://www.w3schools.com>
- <http://developer.mozilla.org>
- <http://community.mis.temple.edu>
- <http://jquery.org>

There will be approximately 8 steps total for students to complete. Some of these steps are broken down into smaller sub-steps with varying point value. Some steps will have greater point-value than others. Each step must be completely accomplished in order to complete receive the allotted points. There will be a total of 30 points on the exam.

Topic List

The following topic list is provided to help students prepare for the exam. It is a list of topics that students should have confidence in. This confidence should extend to combining these topics together in order to create solutions that may be ***slightly*** different from what students have previously encountered.

1. Bootstrap
 - a. The container class
 - b. The row class
 - c. The col class
2. FontAwesome
 - a. How to create a font-awesome icon.
3. CSS
 - a. Know the difference between the “id” and “class” HTML attributes and how to style them.

4. HTML

- a. <table> and related tags
- b. and
- c. and
- d. The anchor tag: <a>
- e. <form>
- f. <input>
- g. <select> and <option>
- h.

- i. <p>
- j. <script>
- k. <style>
- l. <link>

5. JavaScript commands and syntax

- a. functions
 - i. How to define a JavaScript function using “var”
 - ii. How to define a callback function used inside of a jQuery method
 - iii. How parameters are passed in to a function
- b. “if” statements
- c. “for” loops
- d. Simple objects / arrays
- e. console.log

6. jQuery selectors

- a. # is used to select by an id attribute
- b. . is used to select by a class attribute
- c. No prefix is used to select tags

7. jQuery methods

- a. .addClass()
- b. .removeClass()
- c. .toggleClass()
- d. .show()
- e. .hide()
- f. .val()
- g. .html()
- h. .append()
- i. .serialize()

8. jQuery events

- a. .ready()
- b. .click()

9. jQuery methods that use a callback function
 - a. \$.getJSON()
 - b. how to define a call back function
 - c. how to iterate through the data using for loop
 - d. \$.post()
 - e. .serialize()
 - f. Know the difference between the “name” and “id” HTML attributes and which one is used in .serialize()
10. Other
 - a. The Google Developer Tools – don’t forget to use them!
 - b. Students should be able to recognize JSON text when they see it and be able to interpret simple objects expressed as JSON.
 - c. Understand the important difference between id and name attributes of an HTML tag

Please be advised that there may be items on the list that are not on the exam. There also may be items on the exam that are not on the list.

Grading

Here are some things your instructor looks for when evaluating code.

1. Does the code run without error?
2. Does the code work in the fashion described by the problem?

Advisories

1. Transferring your exam work to another student, either deliberately or through negligence, will be considered cheating and result in a zero for the exam. Incidents of academic dishonesty will be escalated to the University Disciplinary Committee.
2. Be advised that classroom and server activity during the exam is monitored.
3. Only one screen per student will be permitted. Students using more than one electronic device will be asked to leave the room, and will earn a grade of zero on the exam.
4. Under no circumstances is the printed exam to leave the classroom. Students who do so will receive a grade of zero on the exam.
5. You have the whole class period in which to complete the exam. If you do not upload your solution before the end of class, you will receive a zero on the exam.